



U.S. Department
of Transportation

Research and
Special Programs
Administration

400 Seventh Street, S.W.
Washington, D.C. 20590

IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE NUMBER USA/0530/S, REVISION 0

This certifies that the source described has been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency¹ and the United States of America² for the transport of radioactive materials.

1. Source Identification - JLS&A 8810-AmBe-154
2. Source Description - The source is a stainless steel triple encapsulation with outside dimensions of 29mm (1.14") diameter and 50mm (1.96") long. The source is further described and shall be manufactured in accordance with J. L. Shepherd and Associates drawing No. A-0503-4225 (attached).
3. Radioactive Contents - Not more than 0.185 TBq (5 Ci) of Am-241 in oxide form mixed with beryllium powder as a neutron-producing material.
4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 209 of the IAEA regulations¹ shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors and consignees in the United States exporting or importing shipments under this certificate shall satisfy the requirements of Subpart H of 10 CFR 71.
5. Expiration Date - This certificate expires April 30, 2002.

This certificate is issued in accordance with paragraph 703 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the petition and information dated January 5, 1997 submitted by J.L. Shepherd and Associates, San Fernando, CA, and in consideration of other information on file in this Office.

Certified by:

Alan I. Roberts

Associate Administrator for Hazardous Materials Safety

APR 28 1997

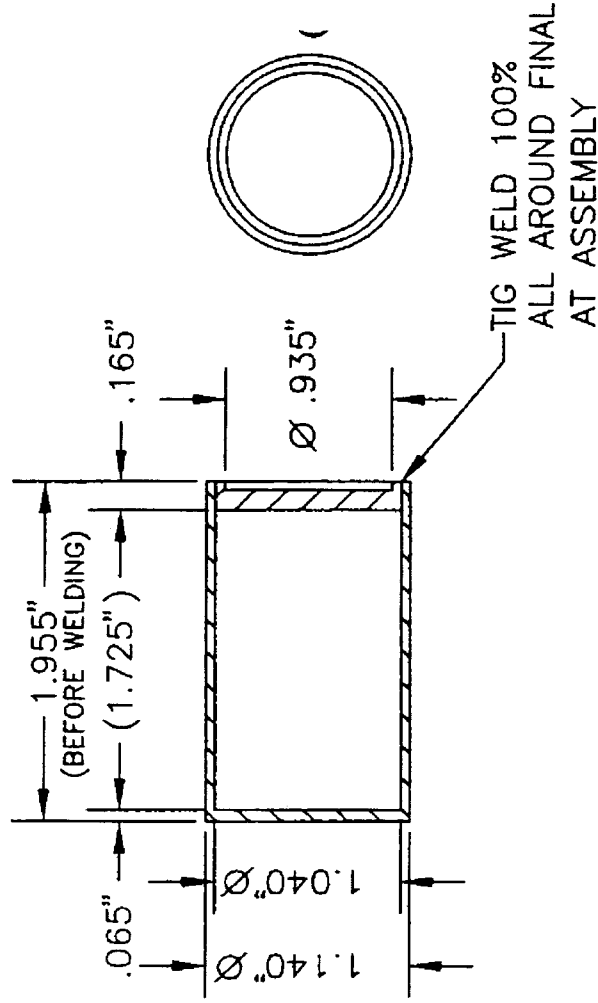
(DATE)

Revision 0 - Original issuance.

1 "Safety Series No. 6, Regulations for the Safe Transport of Radioactive Materials, 1985 Edition, as amended 1990", published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

2 Title 49, Code of Federal Regulations, Parts 100 - 199, United States of America.

REVISIONS		
REV	DESCRIPTION	DATE
		APPROVED



NOTE:

1. END CAP -304 SS.
2. SOURCE CERTIFIED "SPECIAL FORM".
3. END CAP HAS .002" REGISTER, .0005" INTERFERENCE FIT.
4. REMOVEABLE CONTAMINATION (LEAK TEST) AFTER LOADING $\leq 5 \times 10^{-3}$ mCi.
5. SCRIBE / ENGRAVE 3/32" HIGH LETTERS (MIN.):
"JLS 7810-109R 5 Ci 241-AM/BE
S/N 1400 AM 29 DATE:10/31/96
6. WELD PENTRANT TEST REQUIRED AFTER LOADING.
7. ALL DIM'S +/- .002"

MATL = 304 SS (MACHINE FROM ROD)

INNER CAPSULE = NUMEC AM-154

WITH OPTIONAL CAP

J. L. SHEPHERD and Associates

DRAWN BY	DATE	APPROVED BY	SCALE
D. TRAN	01-15-97	<i>[Signature]</i>	FULL

TERTIARY "SPECIAL FORM" ENCAPSULATION

FOR NUMEC AM-154

A-0503-4225